## **Tutorial 4**

## Exercise 1

Given the following Java code:

- (a) Specify the name of the sorting method carried out by asort() method.
- (b) Show the output after execution.
- (c) A better algorithm for asort() method is that it can terminate the sorting process earlier once it has found the elements in the array are in ascending order. Modify the asort() method to this early terminating version.

## Exercise 2

If the <u>bubble sort</u> is used for the following sequence of integers:

```
4, 7, 5, 9, 6, 3, 2, 8, 1
```

show the output of the first six bubbling passes.

## Exercise 3

Modify the code given in *exercise 1* to implement *selection sort*.